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DATE MAILED: 09/29/2008

NOTICE OF ALLOWANCE AND FEE(S) DUE

 442/8
 7590
 69/29/2008
 EXAMINER

 DOCKET CLERK
 PHU, SANH D

 PO BOX 12/608
 ARTUNT
 PAPER NUMBER

 DALLAS, TX 75225
 2618

 APPLICATION NO.
 FILNO DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/7/6-986
 02/11/2004
 Hone/ins Zhane
 1578-235
 4574

TITLE OF INVENTION: APPARATUS, AND ASSOCIATED METHOD, FOR FACILITATING CONTROL OF CONTROL SIGNALING PERFORMED

BY A MOBILE NODE OPERABLE IN A RADIO COMMUNICATION SYSTEM

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	12/29/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	of transmitting the 1330 ng the Patent, advance of nerwise in Block 1, by (rders and notification of a a) specifying a new corre	maintenance fees w spondence address;	ill be and/or	mailed to the current (b) indicating a sepa	corresponder rate "FEE A	nce address as DDRESS" for
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	TOR ATTORNEY DOCKET NO. CONFIRMA			ATION NO.	
10/776,986 TITLE OF INVENTION BY A MOBILE NODE 0	02/11/2004 S: APPARATUS, AND A OPERABLE IN A RADI	ASSOCIATED METHOR O COMMUNICATION	Hongjun Zhang D, FOR FACILITATING SYSTEM	CONTROL OF CO	NTŔĊ	1578.235 PSSCNALING PERI	45 FORMED	74
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DAT	TE DUE
nonprovisional	NO	\$1440	\$300	\$0		\$1740	12/2	29/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	1				
PHU, S.	ANH D	2618	455-068000	•				
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Comp	" Indication form ed. Use of a Customer A TO BE PRINTED ON	(I) the names of up to or agents OR, alternati (2) the name of a single registered autorney or a 2 registered patent atto listed, no name will be THE PATENT (print or tyl data will appear on the p pt a substitute for filing an (B) RESIDENCE: (CITY	vely, le firm (having as a agent) and the name meys or agents. If r printed. pc) satent. If an assigne assignment.	memb s of u no nam	er a 2p to p to se is 3	ocument has	been filed for
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Advance Order -	wo small entity discount p	permitted)	b. Payment of Fee(s): (Ples A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	rd. Form PTO-2038	is atta	ched.		
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.	☐ b. Applicant is no lon					
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	ed from anyone other than t k Office.	the applicant; a regis	stered a	attorney or agent; or th	e assignee or	other party in
Authorized Signature				Date				
Typed or printed name			Registration No.					
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

s: COMMISSIONER FOR PATENTS P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION N	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/776,986		02/11/2004	Hongjun Zhang	1578.235 (10886-US-PAT)	4574	
44208	7590	09/29/2008		EXAMINER		
DOCKET CLERK				PHU, SANH D		
PO BOX 126				ART UNIT	PAPER NUMBER	
DALLAS, TX 75225		5		2618		
				DATE MAILED: 09/29/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 748 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 748 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)				
10/776,986	ZHANG ET AL.				
Examiner	Art Unit				
SANH D. PHU	2618				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable. PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 1/14/08.
- 2. The allowed claim(s) is/are 1-23.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - b) \(\subseteq \text{Some*} \) c) \(\subseteq \text{None} \) of the:
 - 1. T Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. __
 - 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6.

DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. | Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08). Pacer No./Mail Date
- 4. T Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- 6 Interview Summery (PTO-413) Paper No./Mail Date
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other

Art Unit: 2618

This Office Action is responsive to the Amendment filed on 1/14/2008.

EXAMINER'S AMENDMENT

- 2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it must be submitted no later than the payment of the issue fee.
- 3. The application has been amended as follows:

In claim 24, line 1,"(withdrawn)" has been changed to --canceled--.

REASONS FOR ALLOWANCE

- Claims 1-23 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

Claims 1-23 are allowable over the prior art of record for the reason as stated in the Applicant's Remark dated on 1/14/2008 pages 9-12 and the reasons as below:

Regarding to claim 1, none of the prior art of record teaches or suggests an apparatus for a radio communication system having a mobile node selectably operable to communicate with a network part, said apparatus for facilitating control of when control signaling is generated at the mobile node for communication to the network part, said apparatus comprising: a determiner adapted to receive indications indicating whether a prior-sent control signal sent by the mobile node has been successfully delivered to the network part; and an access-attempt-time selector operable responsive

Application/Control Number: 10/776,986

Art Unit: 2618

to a determination by said determiner of less than a selected level of access to the network part of the radio communication system by the mobile node, said access-attempt-time selector for selecting when to permit transmission of a subsequent control signal by the mobile node to attempt access to the network part of the communication system. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Regarding to claim 5, none of the prior art of record teaches or suggests an apparatus for a radio communication system having a mobile node selectably operable to communicate with a network part, said apparatus for facilitating control of when control signaling is generated at the mobile node for communication to the network part, said apparatus comprising: a determiner adapted to receive indications indicating whether a prior-sent control signal sent by the mobile node has been successfully delivered to the network part; an access-attempt-time selector operable responsive to a determination by said determiner of less than a selected level of access to the network part of the radio communication system by the mobile node, said access-attempt-time selector for selecting when to permit transmission of a subsequent control signal by the mobile node to attempt access to the network part of the communication system pursuant to a network searching procedure; and a counter adapted to receive a value indicative of a number of prior network searching procedures attempted by the mobile node, said counter for maintaining a count value of the number of prior network searching procedures, said access-attempt-time selector further coupled to said counter to receive an indication of the count value, and wherein selection made by said selector Application/Control Number: 10/776,986

Art Unit: 2618

of when to permit the transmission of the subsequent control signal is, at least in part, responsive to the count value. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Regarding to claim 15, none of the prior art of record teaches or suggests a method for facilitating control of when control signaling is generated at a mobile node for communication to a network part of a radio communication system, said method comprising: determining, responsive to indications indicating whether a prior-sent control signal sent by the mobile node has been successfully delivered to the network part, whether the network part of the radio communication system is accessible by the mobile node; and selecting when to permit transmission of a subsequent control signal by the mobile node to attempt access to the network part of the communication system responsive to a determination during said operation of determining of access by the mobile node at less than a selected level of access to the network part. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Regarding to claim 23, none of the prior art of record teaches or suggests a method for facilitating control of when control signaling generated at a mobile node for communication by way of a radio link to a network part of a radio communication system, said method comprising: initiating effectuation of registration procedures of the mobile node with the network part; preventing effectuation of updating procedures by the mobile node during effectuation of the registration procedures initiated during said operation of initiating; determining whether the registration procedure initiated during

Application/Control Number: 10/776,986

Art Unit: 2618

said operation of initiating results in at least access of the mobile node to the network part; and, if not selectably increasing a delay period prior to generating subsequent signals to access the network part. It would not have been obvious for a person skilled in the art to combine other prior arts of record in order to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanh D. Phu whose telephone number is (571)272-7857. The examiner can normally be reached on M-Fr from 8:00-16:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571) 272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/776,986 Page 6

Art Unit: 2618

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sanh D Phu/ Primary Examiner Art Unit 2618